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nem, qui vicem Praefecti Annona obiret, & in omnibus istis inferiorum Decurionum Collegiis primum teneret locum, id manifeste ex hac patet Inscriptione, ubi minores Decuriones Bovillani honorem faciunt Equiti Romano & Palatino, qui Decurio seu Curialis & Fretriacus in omnibus esset locis & urbibus, a quibus & per quas Annona Aegyptiaca Romam devehebatur. Decuriones vero promotos fuisse ad honorem Sacerdotii, ita ut simul Flamines, Luperci, Epulones Jovis, & Parasiti fierent Apollinis; & hoc quoq; multis constat exemplis. Omne vero dubium tollit, quod in hac Inscriptione eques ille Romanus vocetur Antinoiton & Eunostidon Decurio. Antinoi enim urbs praecipua tum temporis Aegypti superioris erat Civitas, unde per multas fossas frumentum deferrebat ad Mareotin lacum, qui ad Eunosti portum exit in Mare. Ab hoc portu dicti Eunostida curatores frumenti Aegyptiaci; unde demum confectus deus Eunostus rei frumentariae Inspector, qui huic praesideret portui.

Several Observations of the Eclipse of Jupiter by the Moon on March the 31th. 1686. St. Vet. whereof some account has already been given in Transaction No. 181.

THe most accurate Observation of this Eclipse we have received, is that of Mr. Cassini, made in the Royal Observatory at Paris, published in the *Journal des Sçavans* of the 10th of June last, the substance whereof is as follows.

April 10th. St. N. Vesperi Mr. Cassini, assisted by other Astronomers, attended upon this Occultation with Telescopes of 21 and 70 foot, while one was deputed to take the Altitudes of γ to verifie the time.

At 9h. 31m. 6sec. γ was in a perpendicular falling on the Limb of the ν over against the Northern Part of the spot Grimaldi (Mareotis) near to Riccioli (stag. Miris) and was distant from the Limb about four times as much as the said spot.

9h. 40m. 21sec. γ touched the circumference of δ , which undulated by reason of the Vapours near the Horizon.

9. 41. 20. he quite disappeared in the inequalities of the δ 's Limb, the total Immersion might be some seconds later.

So the central immersion was at 9h. 40m. 51sec.

γ entred over against that part of *Grimaldi* next *Riccioli*. The Vapours of the Horizon hindered the Observation of the Immersions of the Satellites, but not their Emersions, for

At 10h. 30m. 2sec. the *outermost* Satellite which preceded γ , appeared over against the middle of the Caspian Spot (*pal. Maotis*) through which the section of Light and Darkness passed, and made nearly an equilateral Triangle with the Extremities of that spot.

At 10h. 40m. 24sec. the first Limb of γ began to come out of the dark side of the δ , over against the North part of the Caspian spot, about *Cleomedes*, (*ad montes Riphæos*)

At 10h. 40m. 56sec. the center of γ did emerge. It was difficult to distinguish the moment when γ 's disk was fully clear, but at 10h. 41m. 36sec. the Eclipse was certainly past.

At the Emersion of the Center, the Altitude of γ was 11d. 31m.

At 10h. 42m. 49s, the *second* Satellite, being the nearest of the three that followed the Planet, emerged.

At 10h. 45m. 1s. the *innermost* Satellite, being near its greatest Elongation, emerged.

At 10h. 50m. 40s. the *third* or *penextimus* Satelles, being likewise near its greatest Elongation, began to appear over against the Northern Edge of the Caspian Spot.

At 11h. 45m. the Diameter of the δ was 32m. 27s. and according to the *calculus* of Mr. *Cassini*, her parallax was 61min.

Together with this Observation is joyned that of R. P. *Bonfa*. made at *Avignon* who observed the central immersion at 9h. 42m. 13s. and the central Emersion at 10h. 45m. 26s.
over

over against the Southern part of the Caspian Spot.

The same *P. Bonfa* has also observed at *Avignon* the other Eclipse of the same Planet, *April 28th. ft. vet. Mane*. The Immersion of the Center hapned at *3h. 37m. 23s.* on the East side of the Spot *Xenophanes*. The Emerision was at *4h. 28m. 24s.* between *Seneca* and *Berosus*, according to *Riccioli*, or *ad montes Aianos Hevelii*, a little to the Northward of the *Palus Maotis*. This occultation could not be observed at *Paris* by reason of Clouds.

Another printed Paper about the Eclipse of *March 31th*, is since come to hand from *Nurenburg*, where it was observed part, by Mr. *I. Iac Zimmerman*, and by Mr. *Wurtzelbauer*, the substance of whose Observations is as follows.

At *10h. 19m. 56s.* Mr. *Zimmerman* observed the first contact of the Limbs of γ and the δ , and at *10h. 20m. 47s.* γ was all eclipsed.

At *11h. 22m. 51s.* γ was wholly clear from the Eclipse.

The Immersion was about the *117th*, the Emerision at the *321th*. Degree of the Limb, in the Chart of *Hevelius*.

At *11h. 31m. 06s.* the third Satellite of γ emerged. These times were collected from the Culminations of fixt Stars, and the Vibrations of a Pendulum.

The Relation of the other Observer Mr. *Wurtzelbauer* is to this purpose.

At *10h. 20m. 50s.* γ applied to the Limb of the δ , over against the *locapaludosa Insula Circinnæ*.

At *10h. 22m. 00s.* he appeared about half eclipsed.

At *10h. 22m. 30s.* he was wholly hid.

At *11h. 19m. 40s.* γ began to Emerge.

At *11h. 21m. 20s.* he was quite free from the interposition of the δ . The point of the Emerision was somewhat to the North of the *Palus Maotis*.

No Spot in the δ was so near the apparent magnitude of γ 's disk as the *Insula Besbicus Hevelii*.

At *11h. 40m. 00s.* the Altitude of *Procyon* was *82r. 37m.* whence the Pendulum Clock, which had been set by Alti-

tudes of the ☉ the afternoon preceding, may be examined.

The Account we have but now lately received from the famous Mr. *Hevelius* from *Dantzick*, of these same Eclipses, is contained in this following Discourse addressed in a Letter from the Observer to the *R. Society*.

Occultatio Jovis Anno 1686, die 10 April. st. n. vespere, observata Gedani a Joh. Hevelio.

AD hanc Observationem summa alacritate accessi, non obstante invaletudine mea, cum Cœlum fere undeq; esset ferenum, nisi quod circa Horizontem, ubi Luna atq; Jupiter exoriri debebant, vapores quidam atq; nubeculæ existerent. Inprimis ex eo maximopere fui excitatus, quod hujus generis Observationes, Occultationes nempe Jovis admodum raro contingant, sed adhuc rarius ex voto observentur. Me quod attinet, scias, mi Lector, etiamsi hucusq; per 56 annos Rebus Cœlestibus pro meo modulo operam dederim, atq; nullam Observationem alicujus momenti, (absit gloriola) lubens neglexerim, haud feliciorem fuisse quam quod in hunc usq; diem spatio 50 circiter annorum, non nisi tres tales Jovis Eclipses rite deprehendere & annotare potuerim: utpote primam Anno 1646, die 24 Decemb. vespere, sed tantummodo ejus finem: secundam, Anno 1679, die 5 Junii ante meridiem de die, quo tempore res omnis feliciter successit; tertiam hoc Anno corrente 1686 die 10 April. vespere.

Quam Observationem, mi Astrophile, prout peragi petuit, a me nunc benevole accipias, rogo. Quæ vero obtenta, atq; annotata fuerunt, ex subsequente Tabella & Observationis Typo patebunt. Omnium primo nonnullas Altitudines Solis, & Arcturi Quadrante singula minuta commonstrante observavi, ad corrigendum Horologium ambulatorium aliquanto tardius incedens. Deinde, exoriente atq; ex
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